

SEQUENCE LISTING

<110> ASTRAZENECA AB
 Bostwick, Robert
 Corradi, John
 Defay, Thomas
 Furlong, Stephen
 Hirata, Lee T.
 Ravyn, Vipa
 Robbins, Alan

<120> GNAL Splice Variant and Uses Thereof

<130> 101218-1 WO

<150> 60/519,190

<151> 2003-11-11

<150> 60/607,010

<151> 2004-09-03

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<170> PatentIn version 3.3

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 35 40 45
 Ala Arg Thr Leu Leu Pro Arg Gly Gly Glu Gly Ser Pro Ala Cys Ala
 50 55 60
 Arg Pro Lys Ala Asp Lys Pro Lys Glu Lys Arg Gln Arg Thr Glu Gln
 65 70 75 80
 Leu Ser Ala Glu Glu Arg Glu Ala Ala Lys Glu Arg Glu Ala Val Lys
 85 90 95
 Glu Ala Arg Lys Val Ser Arg Gly Ile Asp Arg Met Leu Arg Asp Gln
 100 105 110
 Lys Arg Asp Leu Gln Gln Thr His Arg Leu Leu Leu Leu Gly Ala Gly
 115 120 125
 Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Arg Ile Leu His Val
 130 135 140
 Asn Gly Phe Asn Pro Glu Glu Lys Lys Gln Lys Ile Leu Asp Ile Arg
 145 150 155 160
 Lys Asn Val Lys Asp Ala Ile Val Thr Ile Val Ser Ala Met Ser Thr
 165 170 175
 Ile Ile Pro Pro Val Pro Leu Ala Asn Pro Glu Asn Gln Phe Arg Ser
 180 185 190
 Asp Tyr Ile Lys Ser Ile Ala Pro Ile Thr Asp Phe Glu Tyr Ser Gln
 195 200 205
 Glu Phe Phe Asp His Val Lys Lys Leu Trp Asp Asp Glu Gly Val Lys

210

215

220

Ala Cys Phe Glu Arg Ser Asn Glu Tyr Gln Leu Ile Asp Cys Ala Gln
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 Tyr Phe Leu Glu Arg Ile Asp Ser Val Ser Leu Val Asp Tyr Thr Pro
 245 250 255
 Thr Asp Gln Asp Leu Leu Arg Cys Arg Val Leu Thr Ser Gly Ile Phe
 260 265 270
 Glu Thr Arg Phe Gln Val Asp Lys Val Asn Phe His Met Phe Asp Val
 275 280 285
 Gly Gly Gln Arg Asp Glu Arg Arg Lys Trp Ile Gln Cys Phe Asn Asp
 290 295 300
 Val Thr Ala Ile Ile Tyr Val Ala Ala Cys Ser Ser Tyr Asn Met Val
 305 310 315 320
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 385 390 395 400
 Ala Lys Phe Phe Ile Arg Asp Leu Phe Leu Arg Ile Ser Thr Ala Thr
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 Gly Asp Gly Lys His Tyr Cys Tyr Pro His Phe Thr Cys Ala Val Asp
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Gly Ala Gly Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Arg Ile
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Leu His Val Asn Gly Phe Asn Pro Glu Glu Lys Lys Gln Lys Ile Leu
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5/115

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Glu Arg Glu Ala Ala Lys Glu Ala Arg Lys Val Ser Arg Gly Ile Asp
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Arg Met Leu Arg Glu Gln Lys Arg Asp Leu Gln Gln Thr His Arg Leu
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Leu Leu Leu Gly Ala Gly Glu Ser Gly Lys Ser Thr Ile Val Lys Gln
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Met Arg Ile Leu His Val Asn Gly Phe Asn Pro Glu Glu Lys Lys Gln
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Val Ser Ala Met Ser Thr Ile Ile Pro Pro Val Pro Leu Ala Asn Pro
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Asp Phe Glu Tyr Ser Gln Glu Phe Phe Asp His Val Lys Lys Leu Trp
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 <212> PRT
 <213> Homo sapiens

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 35 40 45
 Gly Ala Gly Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Arg Ile
 50 55 60
 Leu His Val Asn Gly Phe Asn Pro Glu Glu Lys Lys Gln Lys Ile Leu
 65 70 75 80
 Asp Ile Arg Lys Asn Val Lys Asp Ala Ile Val Thr Ile Val Ser Ala
 85 90 95
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 35 40 45
 Gly Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Arg Ile Leu His
 50 55 60

Val Asn Gly Phe Asn Gly Glu Gly Gly Glu Glu Asp Pro Gln Ala Ala
65 70 75 80

Arg Ser Asn Ser Asp Gly Glu Lys Ala Thr Lys Val Gln Asp Ile Lys
85 90 95

Asn Asn Leu Lys Glu Ala Ile Glu Thr Ile Val Ala Ala Met Ser Asn
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Arg Trp Phe Gln His Arg Arg Asn Arg Arg Arg Arg Lys Pro Gln Arg
50 55 60

Asn Leu Leu Arg Asn Phe Leu Val Gln Ala Phe Gly Gly Cys Phe Gly
65 70 75 80

Arg Ser Glu Ser Pro Gln Pro Lys Ala Ser Arg Ser Leu Lys Val Lys
85 90 95

Lys Val Pro Leu Ala Glu Lys Arg Arg Gln Met Arg Lys Glu Ala Leu
100 105 110

Glu Lys Arg Ala Gln Lys Arg Ala Glu Lys Lys Arg Ser Lys Leu Ile
115 120 125

Asp Lys Gln Leu Gln Asp Glu Lys Met Gly Tyr Met Cys Thr His Arg
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Leu Leu Leu Leu Gly Ala Gly Glu Ser Gly Lys Ser Thr Ile Val Lys
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Gln Met Arg Ile Leu His Val Asn Gly Phe Asn Gly Glu Gly Gly Glu

165

170

175

Glu Asp Pro Gln Ala Ala Arg Ser Asn Ser Asp Gly Glu Lys Ala Thr
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Lys Val Gln Asp Ile Lys Asn Asn Leu Lys Glu Ala Ile Glu Thr Ile
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 35 40 45

Ala Arg Thr Leu Leu Pro Arg Gly Gly Glu Gly Ser Pro Ala Cys Ala
 50 55 60

Arg Pro Lys Ala Asp Lys Pro Lys Glu Lys Arg Gln Arg Thr Glu Gln
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Leu Ser Ala Glu Glu Arg Glu Ala Ala Lys Glu Arg Glu Ala Val Lys
 85 90 95

Glu Ala Arg Lys Val Ser Arg Gly Ile Asp Arg Met Leu Arg Asp Gln
 100 105 110

Lys Arg Asp Leu Gln Gln Thr His Arg Leu Leu Leu Leu Gly Ala Gly
 115 120 125

Glu Ser Gly Lys Ser Thr Ile Val Lys Gln Met Arg Ile Leu His Val
 130 135 140

Asn Gly Phe Asn Pro Glu Glu Lys Lys Gln Lys Ile Leu Asp Ile Arg
 145 150 155 160

Lys Asn Val Lys Asp Ala Ile Val Thr Ile Val Ser Ala Met Ser Thr
 165 170 175

Ile Ile Pro Pro Val Pro Leu Ala Asn Pro Glu Asn Gln Phe Arg Ser
 180 185 190

Asp Tyr Ile Lys Ser Ile Ala Pro Ile Thr
 195 200

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 <211> 197140
 <212> DNA
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Gln Met Arg Ile Leu His Val Asn Gly Phe Asn Gly Glu
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